

Ohio Basin.—Local flooding occurred in the Tygart River at Dailey, W. Va., on August 9 and in the upper Holston River in Tennessee and Virginia on August 9 and 10, with more extensive floods in the Wabash River from August 1 to 5.

A report on the flooding in the Wabash River is submitted by the Official in Charge, Indianapolis, Ind., as follows:

For practically the entire month river stages throughout the Wabash River Valley were quite low. The only exception was that of a rapid rise and light to moderate flooding in the upper stretches of the Wabash River from below LaFayette to past Bluffton, Ind., near the source, as a result of excessive rainfall on the night of July 30-31, preceding. These excessive rains were confined to the area of the upper Wabash Valley, including the southern tributaries, as well as the Tippecanoe Valley on the north, and amounted to an average of about 3.5 inches from below Logansport upstream. This rather restricted and very heavy fall was undoubtedly due to the presence of moist tropical air in the upper portion of a depression trough, as influenced by the action of the fronts outlined on the 1:30 AM EST map. Rainfall was substantial but much less in amount to the northward, as well as to the southward over the upper West Fork of the White. In these areas however, it was not sufficient to produce flood waters, and faded to practically nothing in much of the south half of the State, including the Wabash Valley from and below Covington, Ind.

In general, the excessive rains began about 9 to 10 p. m. on July 30 and continued until 5 to 6 a. m. of July 31. The initial rise in the central section of the Wabash was rapid and most pronounced, as indicated by the record of the Wabash, Ind., gage; but while steady, was somewhat slower in the other sections of the district. The particularly rapid rise at Wabash was probably due to the extremely great amount of rain falling over the Salamonie tributary, which empties into the main river a short distance above the Wabash gage. Over this Salamonie section the fall was approximately 1 inch greater than in the other parts of the excessive rainfall area; and evidently passed the rate of infiltration and the initial detention capacity of the soil much sooner and in greater degree than elsewhere.

Arkansas Basin.—Heavy rains in the upper Neosho River basin caused a slight overflow at Burlington, Kans., on August 26.

Exceptionally intense rains over a period of a few hours in a small area east of Stillwater, Okla., and west of Perkins, Okla., produced unusually high stages in the smaller streams in the area between Stillwater and Tulsa, Okla. Council Creek, near Stillwater, reached the highest stage known. Damage was considerable.

West Gulf of Mexico drainage.—A severe local rain storm between Sanderson and Longfellow, Tex., on August 23, resulted in very high rates of discharge in Downy Draw and Sanderson Valley, which are both dry as a rule.

There was some overflow in the Rio Hondo in the vicinity of Roswell, N. Mex. The overflow was the result of abnormally high flow sustained throughout the month and a heavy local thundershower on August 29 over the watershed above Roswell.

FLOOD-STAGE REPORT FOR AUGUST 1942

[All dates in August unless otherwise specified]

River and station	Flood stage	Above flood stages—dates		Crest	
		From—	To—	Stage	Date
ATLANTIC SLOPE DRAINAGE					
	<i>Feet</i>			<i>Feet</i>	
Susquehanna: Oneonta, N. Y.....	12	{ 1 17	{ 1 17	12.4 12.1	1 17
James:					
Bremo Bluff, Va.....	19	14	15	20.1	14-15
Columbia, Va.....	10	{ 8 19	{ 16 20	16.8 19.4 12.6	10 15 19
Roanoke:					
Randolph, Va.....	21	9	10	23.4	10
Weldon, N. C.....	31	{ 10 19	{ 12 21	37.6 33.1	11 20
Williamston, N. C.....	10	15	29	11.0	23-26
Neuse: Smithfield, N. C.....	13	19	22	14.5	20-21
MISSISSIPPI SYSTEM					
Upper Mississippi Basin					
Rock: Moline, Ill.....	10	8	11	10.2	9
Cedar: Waterloo, Iowa.....	12	1	1	12.2	1
Iowa: Wapello, Iowa.....	10	6	8	11.0	7
Missouri Basin					
Big Sioux: Akron, Iowa.....	12	July 31	5	18.3	2
Floyd: James, Iowa.....	14	31	Sept. 3	16.2	Sept. 2
Solomon: Beloit, Kans.....	18	14	17	21.5	16
Republican:					
Scandia, Kans.....	10	26	26	12.3	26
Concordia, Kans.....	8	26	26	8.8	26
Clay Center, Kans.....	15	27	27	15.6	27
Little Blue:					
Endicott, Nebr.....	11	27	29	14.4	28
Hanover, Kans.....	14	28	30	15.8	29
Ohio Basin					
Tygart: Dailey, W. Va.....	9	{ 9 24	{ 9 24	9.6 11.4	9 24
Kentucky: Lock No. 9, Valley View, Ky.....	20	23	23	20.8	23
Wabash:					
Bluffton, Ind.....	10	2	5	11.7	3
Wabash, Ind.....	12	2	4	12.4	4
Lafayette, Ind.....	11	1	2	12.7	2
Arkansas Basin					
Neosho: Burlington, Kans.....	23	26	26	24.5	26